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Feb 26, 2004

DERWENT-ACC-NO: 1995-272839
DERWENT-WEEK: 200416
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TITLE: HIV virus activity inhibitor - obtained by inoculating Lentinus edodes hypha onto lagasse solid medium cultivating dissociating, extracting and inactivating enzyme

INVENTOR: NAGAOKA, H

PATENT-ASSIGNEE: NAGAOKA H (NAGAI)

PRIORITY-DATA: 1993JP-0317564 (December 17, 1993)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 20040038330 A1</u>	February 26, 2004		000	C12P001/00
<input type="checkbox"/> <u>JP 07173070 A</u>	July 11, 1995		006	A61K035/84
<input type="checkbox"/> <u>TW 251238 A</u>	July 11, 1995		000	
<input type="checkbox"/> <u>CN 1106695 A</u>	August 16, 1995		000	A61K035/84
<input type="checkbox"/> <u>JP 3017630 B2</u>	March 13, 2000		005	A61K035/84
<input type="checkbox"/> <u>KR 149477 B1</u>	October 15, 1998		000	A61K035/66

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20040038330A1	June 9, 1994	1994US-0257355	Cont of
US20040038330A1	August 25, 1995	1995US-0519293	Div ex
US20040038330A1	August 19, 2003	2003US-0644221	
JP 07173070A	December 17, 1993	1993JP-0317564	
TW 251238A	March 10, 1994	1994TW-0102087	
CN 1106695A	March 15, 1994	1994CN-0103012	
JP 3017630B2	December 17, 1993	1993JP-0317564	
JP 3017630B2		JP 7173070	Previous Publ.
KR 149477B1	April 4, 1994	1994KR-0007098	

INT-CL (IPC): A61 K 35/66; A61 K 35/84; A61 P 31/12; C12 N 1/14; C12 N 9/42; C12 P 1/00

ABSTRACTED-PUB-NO: JP 07173070A
BASIC-ABSTRACT:

HIV virus activity inhibitor is prepd. by inoculating Lentinus edodes hypha onto bagasse solid medium and cultivating, dissociating the solid medium contg. proliferated hyphae, adding cellulase or protease to the medium at 30 to 50 degree C, extracting the hyphae in presence of the enzyme, inactivating the enzyme and sterilisation by heating to 95 deg. C.

USE/ADVANTAGE - The drug is used for treatment of HIV infections. The drug inhibits HIV proliferation and is highly safe. The drug at 125 microgram /ml inhibits the proliferation of HIV inoculated on MT-4 cells.

In an example, Lentinus edodes was inoculated onto the wetted solid medium composing 90 pts.wt. of bagasse and 10 pts.wt. of rice bran, and cultivated. After the hyphae were proliferated, the bagasse fibres were dissociated by sieving. Then, 3.5 l pure water and 2.0 g cellulase were added to the medium (1.0 kg) at 40 degree C. The bagasse containing medium was circulated and ground using pump with speed change gear so that 80 wt.% of bagasse fibres were sieved through 12 mesh screen, heated to 90 degree C, left for 30 minutes, and filtrated through 60-mesh filter to give Lentinus edodes hypha extract.

ABSTRACTED-PUB-NO: JP 07173070A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/1

DERWENT-CLASS: B04 D16
CPI-CODES: B04-F09; B14-A02B1; D05-A02C; D05-H01; D05-H06; D05-H08; D05-H13;

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